

FIGURE 1A: V<sub>L</sub> DOMAIN

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	10	20	30	40	50
4D5	DIVMTQSHKFMSTSVGDRVSITCKASQDVNTAVAWYQOKPGHSPKLLIYSASFRYT				
HU4D5	DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQOKPGKAPKLLIYSASFLES				
HUV <sub>L</sub> κI	DIQMTQSPSSLSASVGDRVTITCRASQDVSSYLAWYQOKPGKAPKLLIYAASSLES				
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		V <sub>L</sub> -CDR1			V <sub>L</sub> -CDR2

	60	70	80	90	100
4D5	GVPDRFTGNRSGTDFTFTISSVQAEDLAVYYCQQHYTTPPTFGGGTKLEIKRA				
HU4D5	GVPSRFSGSRSGTDFTLTISLQPEDFATYYCQQHYTTPPTFGQGTKVEIKRT				
HUV <sub>L</sub> κI	GVPSRFSGSGSGTDFTLTISLQPEDFATYYCQQYNSLPYTFGQGTKVEIKRT				
			-----		
			V <sub>L</sub> -CDR3		

FIGURE 1B: V<sub>H</sub> DOMAIN

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	10	20	30	40	50	A
4D5	EVQLQQSGPELVKPGASLKL	SCTASGFNIKDTYIHWVKQRPEQGLEWIGRIYPTN				
HU4D5	EVQLVESGGGLVQPGGSLRLS	CAASGFNIKDTYIHWVRQAPGKGLEWVARIYPTN				
HUV <sub>H</sub> III	EVQLVESGGGLVQPGGSLRLS	CAASGFTFSDYAMSWVRQAPGKGLEWVAVISENG				
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			-----			-----
			V <sub>H</sub> -CDR1			V <sub>H</sub> -CDR2

	60	70	80	ABC	90	100ABC
4D5	GYTRYDPKFQDKATITADTSS	NTAYLQVSRLTSEDTAVYYCSRWGGDGFYAMDYW				
HU4D5	GYTRYADSVKGRFTISADTS	KNTAYLQMNSLRAEDTAVYYCSRWGGDGFYAMDVW				
HUV <sub>H</sub> III	SDTYYADSVKGRFTISRDDS	KNTLYLQMNSLRAEDTAVYYCARDRGGA				
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						-----
						V <sub>H</sub> -CDR3

	110
4D5	GQGASVTVSS
HU4D5	GQGTlVTVSS
HUV <sub>H</sub> III	GQGTlVTVSS

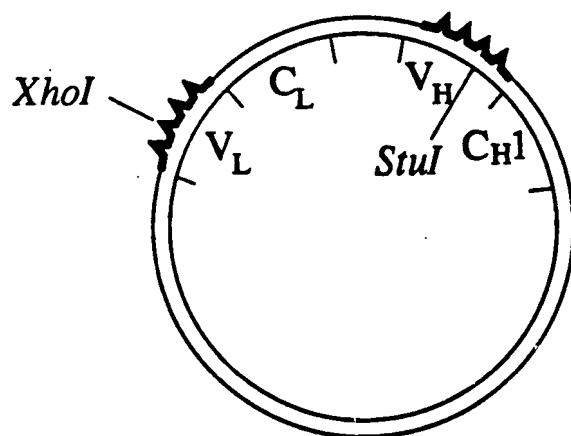
# FIGURE 2

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Anneal huV<sub>L</sub> or huV<sub>H</sub> oligomers to pAK1 template



1. Ligate
2. Isolate assembled oligomers
3. Anneal to pAK1 template (*XhoI*<sup>-</sup>, *StuI*<sup>+</sup>)
4. Extend and ligate



1. Transform *E. coli*
2. Isolate phagemid pool
3. Enrich for huV<sub>L</sub> and huV<sub>H</sub> (*XhoI*<sup>+</sup>, *StuI*<sup>-</sup>)
4. Sequence verify

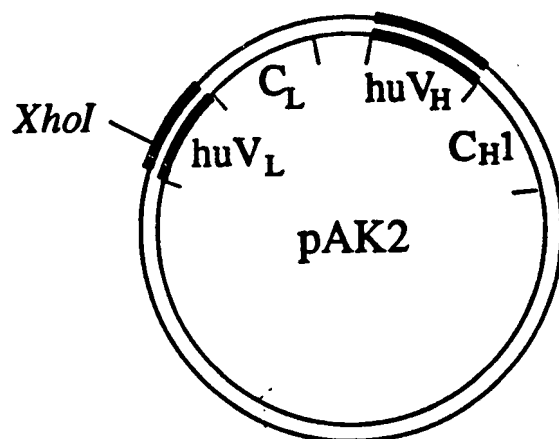


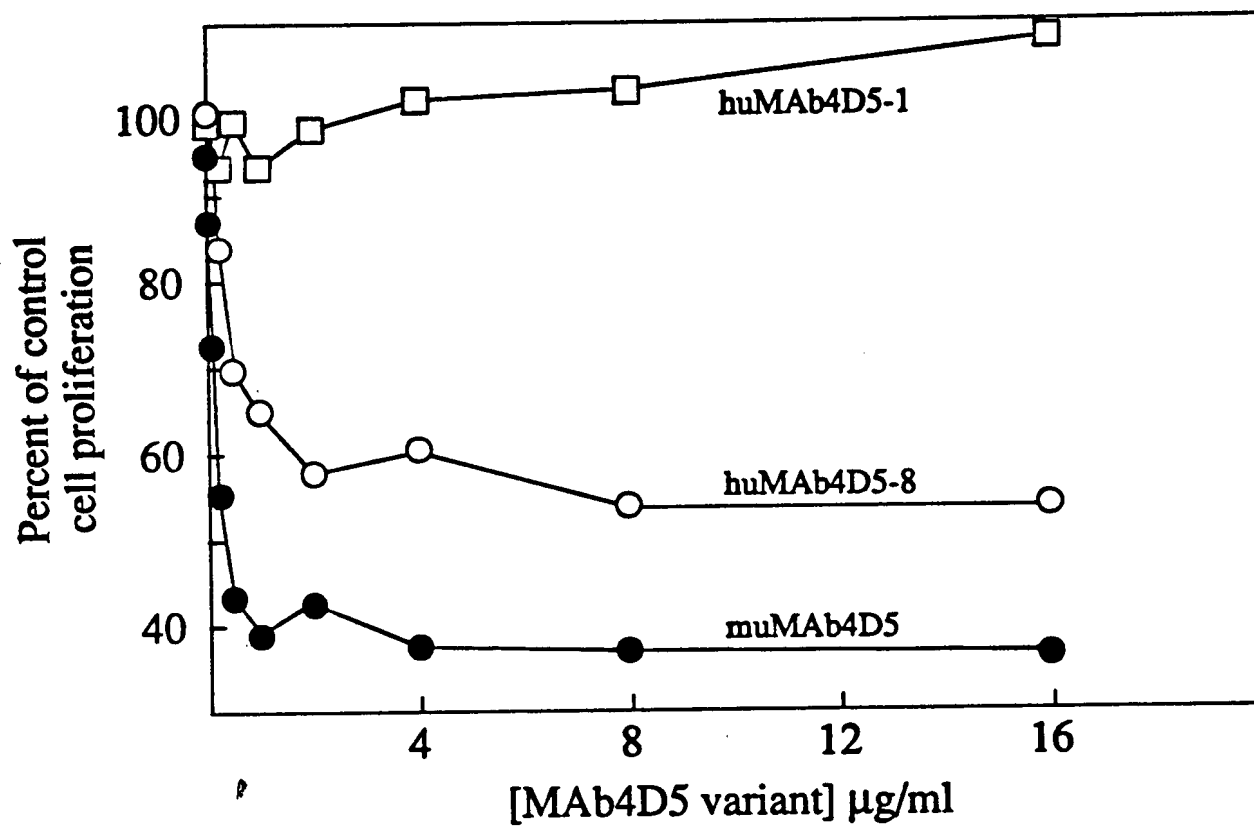
FIGURE 3

FIGURE 4